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	Application No.	Applicant(s)	
Notice of Alleman 194	10/045,283	LIN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Cicely Ware	2611	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap) or other appropriate communication (IGHTS. This application is subject to	plication. If not included n will be mailed in due cour	rse. THIS
1. This communication is responsive to <u>amenment filed on 7.</u>	<u>/26/2006</u> .	•	
2. X The allowed claim(s) is/are 1,2,5-46, 48-51, 53 renumbered	od as 1-49.		
 Acknowledgment is made of a claim for foreign priority unallimited and all b) ☐ Some* c) ☐ None of the: 			
Certified copies of the priority documents have			
2. Certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •		
3. Copies of the certified copies of the priority do	ocuments have been received in this	national stage application f	from the
International Bureau (PCT Rule 17.2(a)).		,	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the require	ments
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			CE OF
5. \square CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.	•	
(a) ☐ including changes required by the Notice of Draftsper	- •	-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or in the C	Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the			k) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			the
Attachment(s)	5 Disting of Information	Datant Annication	
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	 5. ☐ Notice of Informal F 6. ☑ Interview Summary 	• •	
	Paper No./Mail Da	te <u>1</u>	
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner's Amendi	ment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Statement	ent of Reasons for Allowan	ice
	9. Other		

Application/Control Number: 10/045,283 Page 2

Art Unit: 2611

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Theodore A. Wood on 9/21/2006:

Amendments to the Claims

a. Cancel Claim 54.

Art Unit: 2611

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: The following is a statement of reasons for the indication of allowable subject matter: The instant application discloses a communication device for communicating data through a data channel. Prior art references show similar methods but fail to teach: "wherein the data transformer, responsive to the controller, reversibly groups ones of the first predetermined integer number of data bits into selected ones of the selectable integer plurality of data bit vectors and ones of the second predetermined integer number of data bits into selected others of the selectable integer plurality of data bit vectors in the response to the data channel condition, the selectable integer plurality of data bit vectors forming at least one data symbol corresponding to a predetermined pattern being representative of a pre-selected signal constellation", as in claim 1; "(1) forming ones of a first selectable predetermined integer number of data bits into selected ones of a selectable integer plurality of data bit vectors, (2) forming ones of a second selectable predetermined integer number of data bits into selected others of the selectable integer plurality of data bit vectors", as in claim 48; "wherein the selectable predetermined integer number of data bits includes a first integer number of k bits and a second integer number of k+1 bits", as in claim 49; and in combination with other elements of the claims.

Any comments considered necessary by applicant must be submitted no later. than the payment of the issue fee and, to avoid processing delays, should preferably

Application/Control Number: 10/045,283

Art Unit: 2611

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

2. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Cicely Ware whose telephone number is 571-272-3047.

The examiner can normally be reached on Monday – Friday, 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone

numbers for the organization where this application or proceeding is assigned are 703-

872-9314 for regular communications and 703-872-9314 for After Final

communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-305-

3900.

Cicely Ware

September 22, 2006

JAY K. PATEL

SUPERVISORY PATENT EXAMINER

Page 4